```java
import java.util.Scanner;
abstract class shape {
    double d1;
    double d2;
    Shape (double a, double b) {
        d1 = a;
        d2 = b;
    }
    abstract void printarea();
}
class Rectangle extends Shape {
    Rectangle (int a, int b) {
        super (a,b);
    }
    void printarea() {
        double area = d1*d2;
        System.out.println ("Area of rectangle:"+area);
    }
}
class Triangle extends Shape {
    Triangle (int a, int b) {
        super (a,b);
    }
    void printarea() {
        double area = d1*d2/2;
        System.out.println (" Area of triangle:"+area);
    }
}
```

```java
Class Circle extends Shape {
    Circle (double rad) {
        super (rad, rad);
    }
    void print area () {
        double area = 3.14 * d1 * d1;
        System.out.println (" Area of circle:" + area);
    }
}

class Main {
    public static void main (String args[]) {
        Scanner xx = new Scanner (System.in);
        for (;;) {
            System.out.println (" Enter ur choice");
            System.out.print ("\n1: rectangle \n2: triangle
                               \n3: circle \n");
            int ch = xx.nextInt();
            Switch (ch) {
                Case 1: System.out.println (" Enter breadth &
                    length of rectangle");
                    int x = xx.nextInt();
                    int y = xx.nextInt();
                    Rectangle r = new Rectangle (n, y);
                    r. print area ();
                    break;
                case 2: System.out.println ("Enter base &
                    height of triangle");
                    int z = xx.nextInt();
                    int w = xx.nextInt();
```

```java
                    Triangle t = new Triangle (z,w);
                        t. printorea();
        break;
        Case 3 : System.out.println (" Enter radius of
                        circle ");
                double rad = xx.nextInt();
                circle c = new circle (rad);
                c.printorea();
        break;
            }
        }
        }
    }
```

```java
import java.util.Scanner;
abstract class Account {
    String cName, accType;
    long accNo;
    double bal;
    final double minBal = 10000;
    Account(String cName, long accNo, double bal,
            String accType) {
        this.accNo = accNo;
        this.cName = cName;
        this.bal = bal;
        this.accType = accType;
    }

    abstract void addBal(double amt);
    abstract void dispBal();
    abstract void withBal(double amt);
}

class curr_acct extends Account {
    curr_acct(String cName, long accno, double bal) {
        super(cName, accNo, bal, "current");
        System.out.println("Name :" + cName + "\t
                   accNo: " + accNo + " bal: " +
                        bal + " type: " + acctype);
    }

    void addBal(double amt) {
        this.bal += amt;
    }

    void display() {
        System.out.println("Your Balance is : " + this.Bal
        ;
```

```java
    void withBal (double amt){
        this.bal = amt;
        checkBal();
    }

    void checkBal (){
        if (this.Bal < min Bal){
            this.bal -= this.bal * 0.02;
            System.out.println(" Avail. Balance :" + this.
                                                    bal);
        }
    }
}
}

class Sav_acct extents Account {
    Sav_acct (stoiy cName, long accNo, double bal){
        super (cName, accNo, bal, "Savings");
    }

    void addBal (double amt){
        this.bal += amt.
        addInt();
    }

    void addIntr(){
        this.bal += this.bal * 0.07;
    }

    void dispbal (){
        system.out.print(" balance :" + this.bal);
    }

    void withBal (double amt){
        this.bal -= amt;
    }
}
```

```
class Circle extends Shape {
    Circle (double rad) {
        super (rad, rad);
    }

    void print area() {
        double area = 3.14 * d1 * d1;
        System.out.println ("Area of circle: " + area);
    }
}

class Main {
    public static void main (String args []) {
        Scanner xx = new Scanner (System.in);
        for (;;) {
            System.out.println (" Enter ur choice ");
            System.oot.print ("n1: rectangle \n2: triangle
                              \n3: circle \n ");
            int ch = xx.nextInt();
            Switch (ch) {
                case 1 : System.out.println(" Enter breadth &
                    length of rectangle);
                    int x = xx.nextInt();
                    int y = xx.nextInt();
                    Rectangle r = new Rectangle (n, y);
                    r. print area();
                break;
                case 2: System.out.println ("Enter base &
                    heyht of triangle");
                    int z = xx.nextInt();
                    int W = xx.nextInt();
```